



fw

Docket: 71626 US02

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shelton et al.

Serial No.: 10/796,176

Group Art Unit:

Filed: March 09, 2004

Examiner:

For: LOW MOLECULAR WEIGHT CELLULOSE MIXED ESTERS AND THEIR USE
AS LOW VISCOSITY BINDERS AND MODIFIERS IN COATING
COMPOSITIONS

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

UNDER 37 CFR 1.97(b)

In accordance with 37 CFR 1.56, the documents listed on the attached Information Disclosure Statement by Applicant are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

Copies of the cited documents are enclosed.

☐ An International Search Report in connection with the corresponding PCT application has been received. A copy is enclosed.

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last.

Respectfully submitted,

Michael K. Carrier
Registration No. 42,391

Eastman Chemical Company
P.O. Box 511
Kingsport, Tennessee 37662
Phone: (423) 229-4016
FAX: (423) 229-1239

12 May 2004
Date

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a)

I hereby certify that this paper (along with any paper(s) referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jo Ann White

May 12, 2004
Date



Please type a plus (+) sign in this box →



Substitute for form 1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number 71626 US02

First Named Inventor Shelton et al.

COMPLETE IF KNOWN

Application Number 10/796,176

Filing Date March 09, 2004

Group Art Unit

Sheet

1

of

4

Examiner Name

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		1,652,573		Mallabar	12-13-1927
		1,683,347		Gray et al.	09-04-1928
		1,878,954		Malm	09-20-1932
		2,129,052		Fordyce	09-06-1938
		2,801,239		Hiatt et al.	07-30-1957
		3,386,932		Steinmann	06-04-1968
		3,391,135		Ouno et al.	07-02-1968
		3,518,249		Hiatt et al.	06-30-1970
		4,415,734		Yabune et al.	11-15-1983
		4,532,177		Mahar	07-30-1985
		4,543,409		Diamantoglou et al.	09-24-1985
		4,551,492		Aerts	11-05-1985
		4,983,730		Domeshek et al.	01-08-1991
		5,449,555		Karstens et al.	09-12-1995
		5,478,386		Itoh et al.	12-26-1995
		5,480,922		Mülhaupt et al.	01-02-1996
		5,663,310		Shimoda et al.	09-02-1997
		5,705,632		Shimoda et al.	01-06-1998
		5,720,803		Itoh et al.	02-24-1998
		5,856,468		Shuto et al.	01-05-1999
		5,914,309		Ulbl et al.	06-22-1999
		5,919,920		Murakami et al.	07-06-1999

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Please type a plus (+) sign in this box →



Substitute for form 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Attorney Docket Number		71626 US02			
				First Named Inventor		Shelton et al.			
				COMPLETE IF KNOWN					
				Application Number		10/796,176			
				Filing Date		March 09, 2004			
				Group Art Unit					
Sheet	2	of	4	Examiner Name					

		5,962,677		Murakami et al.	10-05-1999
		5,990,304		Kiyose et al.	11-23-1999
		6,099,973		Miyai et al.	08-08-2000
		6,207,601	B1	Maurer et al.	03-27-2001
		6,303,670	B1	Fujino et al.	10-16-2001
		6,407,224	B1	Mironov et al.	06-18-2002
		6,609,677	B2	Seybold et al.	08-26-2003
		10/796,235		Shelton et al.	03-09-2004

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	51-119088		Asahi Dow K.K.	10-19-1976	
		JP	51-119089		Asahi Dow K.K.	10-19-1976	
		WO	91/16356		Eastman Kodak Company	10-31-1991	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Please type a plus (+) sign in this box →



Substitute for form 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Attorney Docket Number		71626 US02			
				First Named Inventor		Shelton et al.			
				COMPLETE IF KNOWN					
				Application Number		10/796,176			
				Filing Date		March 09, 2004			
				Group Art Unit					
Sheet	3	of	4	Examiner Name					

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author(in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
		Kirk-Othmer, Encyclopedia of Chemical Technology, Fourth Ed., vol. 5, pp. 496-529, 509 (1993), John Wiley & Sons, New York, New York		
		Nishimura, T.; Nakatsubo, F. "Chemical Synthesis of Cellulose Derivatives by a Convergent Synthetic Method and Several of Their Properites," Cellulose, 1997, 4, 109		
		Kawada, T.; Nakatsubo, F.; Murakami, K.; Sakuno, T. "Synthetic Studies of Cellulose IX: Reactivity and Cleavage of Three Kinds of Protective Groups of Synthesized Celloologosaccharide Derivatives," <i>Mokuzai Gakkaishi</i> , 1991, 37 (10), 930		
		Kawada, T.; Nakatsubo, F.; Umezawa, T.; Murakami, K.; Sakuno, T. "Synthetic Studies of Cellulose XII: First Chemical Synthesis of Cellooctaose Acetate," <i>Mokuzai Gakkaishi</i> , 1994, 40 (7), 738		
		"Characterization of Cellulose Esters by Solution-State and Solid-State Nuclear Magnetic Resonance Spectroscopy," Editors: T. J. Heinze and W. G. Glasser, Chapter 10 in the ACS Symposium Series 688 :Cellulose Derivatives - Modification, Characterization, and Nanostructures," Douglas W. Lowman, 131-162 (1998)		
		Miyamoto, T.; Sato, Y.; Shibata, T.; Inagaki, H.; Tanahashi, M; <i>J. Polym. Sci., Polym. Chem. Ed.</i> , 1984, 22, 2363		
		Buchanan, C. M.; Hyatt, J. A.; Kelley, S. S.; Little, J. L.; <i>Macromolecules</i> , 1990, 23, 3747		
		Dickey, E. E.; Wolfrom, J. L., "A Polymer-Homologous Series of Sugar Acetates from the Acetolysis of Cellulose,," <i>J. Am. Chem. Soc.</i> , 1949, 825		
		Wolfrom, M. L.; Dacons, J. C., "The Polymer-Homologous Series of Oligosaccharides from Cellulose," <i>J. Am. Chem. Soc.</i> , 1952, 5331		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

[illegible]

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.